

**Product Information**

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# **Ultramid® T KR 4355 G5** **Polyamide 6/6T Copolymer**


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**Product Description**

Ultramid T KR 4355 G5 is a 25% glass fiber reinforced injection molding PA6/6T grade featuring high toughness, stiffness, and strength, low water absorption, and high melting point (295 C). After the material has been conditioned, its mechanical properties remain stable up to 65 C.

| PHYSICAL                                              | ISO Test Method | Property Value |             |
|-------------------------------------------------------|-----------------|----------------|-------------|
| Density, g/cm³                                        | 1183            | 1.35           |             |
| Moisture, %                                           | 62              |                |             |
| (50% RH)                                              |                 | 1.3            |             |
| (Saturation)                                          |                 | 5.5            |             |
| MECHANICAL                                            | ISO Test Method | Dry            | Conditioned |
| Tensile Modulus, MPa                                  | 527             |                |             |
| 23°C                                                  |                 | 9,000          | 9,000       |
| Tensile stress at break, MPa                          | 527             |                |             |
| -40°C                                                 |                 | 214            | 203         |
| 23°C                                                  |                 | 185            | 170         |
| 80°C                                                  |                 | 111            | -           |
| Tensile strain at break, %                            | 527             |                |             |
| -40°C                                                 |                 | 2.8            | 2.4         |
| 23°C                                                  |                 | 3.0            | 3.0         |
| 80°C                                                  |                 | 3.0            | -           |
| Flexural Modulus, MPa                                 | 178             |                |             |
| 23°C                                                  |                 | 7,300          | -           |
| IMPACT                                                | ISO Test Method | Dry            | Conditioned |
| Charpy Notched, kJ/m²                                 | 179             |                |             |
| -30°C                                                 |                 | 8.5            | -           |
| 23°C                                                  |                 | 11             | -           |
| Charpy Unnotched, kJ/m²                               | 179             |                |             |
| -30°C                                                 |                 | 60             | -           |
| 23°C                                                  |                 | 80             | -           |
| THERMAL                                               | ISO Test Method | Dry            | Conditioned |
| Melting Point, °C                                     | 3146            | 295            | -           |
| HDT A, °C                                             | 75              | 245            | -           |
| Coef. of Linear Thermal Expansion, Parallel, mm/mm °C |                 | 0.25 X10-4     | -           |
| Coef. of Linear Thermal Expansion, Normal, mm/mm °C   |                 | 0.55 X10-4     | -           |
| ELECTRICAL                                            | ISO Test Method | Dry            | Conditioned |
| Comparative Tracking Index                            | IEC 60112       | 600            | 600         |
| Volume Resistivity (Ohm)                              | IEC 60093       | 1E13           | 1E12        |
| Dielectric Constant (1 MHz)                           | IEC 60250       | 4.3            | 4.5         |
| Dissipation Factor (1 MHz)                            | IEC 60250       | 300            | 400         |
| UL RATINGS                                            | UL Test Method  | Property Value |             |
| Flammability Rating, 0.44mm                           | UL94            | HB             |             |
| Flammability Rating, 0.75mm                           | UL94            | HB             |             |
| Relative Temperature Index, 0.75mm                    | UL746B          |                |             |
| Mechanical w/o Impact, °C                             |                 | 120            |             |
| Mechanical w/ Impact, °C                              |                 | 100            |             |
| Electrical, °C                                        |                 | 140            |             |
| Flammability Rating, 1.5mm                            | UL94            | HB             |             |
| Relative Temperature Index, 1.5mm                     | UL746B          |                |             |
| Mechanical w/o Impact, °C                             |                 | 140            |             |
| Mechanical w/ Impact, °C                              |                 | 115            |             |
| Electrical, °C                                        |                 | 140            |             |
| Flammability Rating, 3.0mm                            | UL94            | HB             |             |
| Relative Temperature Index, 3.0mm                     | UL746B          |                |             |
| Mechanical w/o Impact, °C                             |                 | 140            |             |
| Mechanical w/ Impact, °C                              |                 | 115            |             |
| Electrical, °C                                        |                 | 140            |             |

**Note**

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